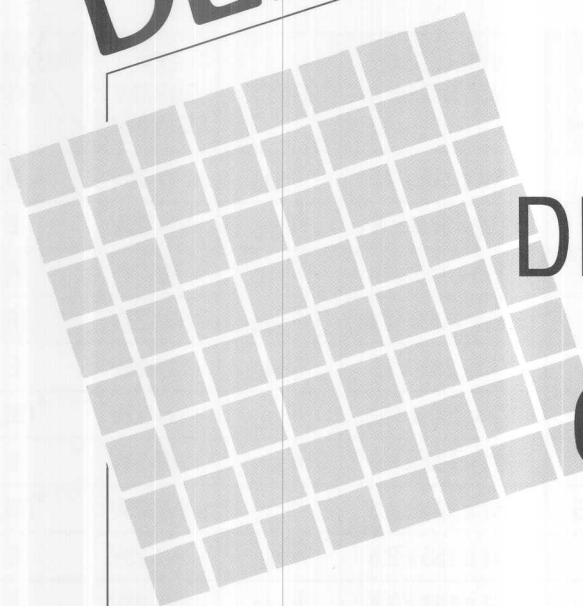
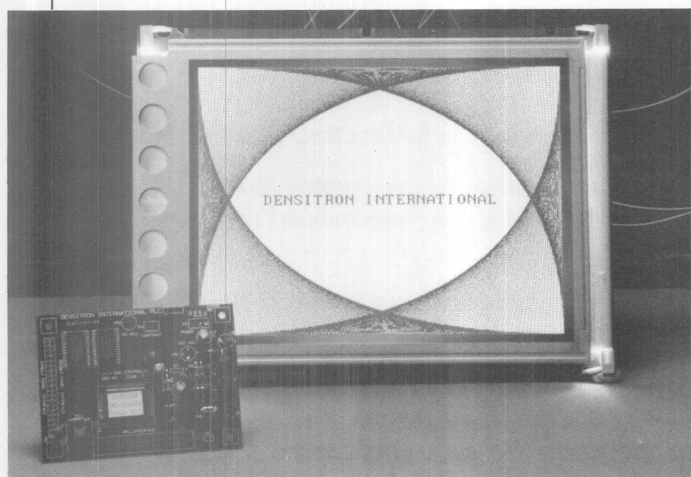


DENSITRON



DENSITRON LARGE GRAPHICS DISPLAYS



JAN '94

GRAPHICS

SUPERTWIST GRAPHIC MODULES

DISPLAY FORMAT	MODULE NUMBER	DOT PITCH W x H (mm)	SCREEN DIAG (INCHES)	VIEWING AREA W x H (mm)	OVERALL SIZE W x H x D (mm)	DUTY	LCD SUPPLY VOLTAGE	POLARISE TYPE
200 x 640	LM205	0.36 x 0.36	9.5	240 x 79	270 x 110 x 12	1/200	+5V/-20V	A, B, E
200 x 640	LMG6647	0.30 x 0.30	7.9	198 x 66	250 x 98.5 x 9	1/200	+5V/-23V	E
400 x 640	LMG223	0.30 x 0.30	8.9	197 x 125	250 x 145 x 9	1/200	+5V/-23V	A
400 x 640	LMG675	0.30 x 0.30	8.9	197 x 125	250 x 145 x 10.5	1/200	+5V/-23V	E
480 x 640	LMG6487	0.45 x 0.45	14.2	298 x 226	373 x 282 x 19	1/240	+5V/-23V	E
480 x 640	LMG6460	0.32 x 0.32	10.1	215 x 163	272 x 200 x 10.5	1/240	+5V/-22V	*(B), E
480 x 640	LMG694	0.30 x 0.30	9.4	197 x 149	250 x 172 x 8.5	1/240	+5V/-23V	E
480 x 640	LMG605	0.30 x 0.30	9.4	196 x 147.5	260 x 174 x 6.5	1/240	+5V/-23V	*(B), E
480 x 640	LMG683	0.27 x 0.27	8.5	179 x 135	244 x 158 x 9.5	1/240	+5V/-23V	E
480 x 640	LMG6523	0.261 x 0.261	8.2	174 x 130	244 x 158 x 9.5	1/240	+5V/-23V	E
480 x 640	LMG671	0.23 x 0.23	7.2	151 x 113.4	205.5 x 141 x 5.5	1/240	+5V/-17V	B, E
480 x 640	LMG640	0.19 x 0.19	6.0	128 x 97.5	186 x 121 x 6.5	1/480	+5V/+38V	E
480 x 640	LMG641	0.19 x 0.19	6.0	127 x 91.2	186 x 121 x 5.5	1/240	+5V/-23V	B, E
768 x 1024	LMG6491	0.22 x 0.22	11.1	232 x 175	316 x 220 x 12.5	1/384	+5V/+38V	E

COLOUR FSTN GRAPHIC MODULES

480 x 640 x RGB	LMG8331	0.30 x 0.30	9.4	197 x 147	260 x 183 x 10	1/240	+5V/+30V	E
480 x 640 x RGB	LMG8330	0.30 x 0.30	9.4	197 x 147	260 x 183 x 10.5	1/480	+5V/+38V	E
480 x 640 x RGB	LMG8326	0.261 x 0.261	8.2	177 x 130	244 x 168 x 10.5	1/480	+5V/+38V	E
480 x 640 x RGB	LMG8325	0.249 x 0.249	7.84	164 x 123	TBD	1/480	+5V/+38V	E

* (B) Minimum production quantity may apply.

NOTE 1: CCFL ba

GRAPHIC CONTROLLER OPTIONS

Densitron provides a complete range of controller cards designed specifically to work with the Densitron line of graphic LCD panels.

- 1. DBC-02**

This unit is designed to be a general purpose graphic controller for panel formats of 200 x 320, 200 x 640, 400 x 640 and 480 x 640. The host interface provides easy connection to an 8 bit parallel micro -processor data bus.
- 2. SINGLE BOARD EMBEDDED COMPUTERS**

This is a complete PC solution with a wide range of options available from XT solutions through to the 386sx. Contact your local sales office for further detailed information. (Solutions vary from region to region)
- 3. PCX-10**

This unit is a half length PC XT/AT CGA (Colour Graphics Adaptor) flat panel controller card which fits into a standard 8 bit I/O expansion slot. The output signals at the 25-pin "D" connector provide the power, data and timing necessary to drive a 200 x 640 or 400 x 640 graphics LCD panel. A double scan technique is used to show CGA format (200 x 640) on a 400 x 640 LCD display. 200 x 320 formats are also supported.
- 4. SPX-20**

This 6 1/2 x 7 inch card converts a 400 x 640 dot LCD display into a serial ASCII terminal. The host connection is via a two way RS232 serial port. Printer and keyboard interface ports are also provided.

BACKLIGHT TYPE	BACKLIGHT INVERTER (SEE NOTE 1)	MODULE CONNECTOR TYPE (SEE NOTE 2)	RECOMMENDED CONTROLLER	COMMENTS
EL	DAS5V16	SIL PTH	1, 2, 3, 8	Reflective and transfective modes available
1 x CFL	DAS12F39	SOCKET	1, 2, 3, 8	Compact CCFL backlit CGA display
N/A	N/A	SOCKET	1, 2, 3, 4, 5, 6, 7	Reflective mode EGA display
1 x CFL	DAS12F37	SOCKET	1, 2, 3, 4, 5, 6, 7	CCFL backlit EGA display
2 x CFL	BUILT - IN	SOCKET	1, 2, 5, 6, 7, 8	14.2 inch large screen VGA display
2 x CFL	DAS12F17 - 47	SIL PTH	1, 2, 5, 6, 7, 8	High brightness display
1 x CFL	DAS12F37	FPC CABLE	1, 2, 5, 6, 7, 8	
1 x CFL	DAS12F52	SOCKET	1, 2, 5, 6, 7, 8	High contrast/industry standard
1 x CFL	DAS12F37	FPC CABLE	1, 2, 5, 6, 7, 8	
1 x CFL	DAS12F55	FPC CABLE	1, 2, 5, 6, 7, 8	High contrast 8.2 inch screen
1 x CFL	DAS12F52	FPC CABLE	1, 2, 5, 6, 7, 8	High contrast 7.2 inch screen
1 x CFL	DAS12F51	FPC CABLE	1, 2, 5, 6, 7, 8	Ultra compact VGA display
1 x CFL	DAS12F51	FPC CABLE	1, 2, 5, 6, 7, 8	High contrast ultra compact VGA display
2 x CFL	DAS12F49	SOCKET	7	SVGA high resolution display

2 x CFL	DAS12F54	FPC CABLE	7	Super high contrast passive VGA colour
2 x CFL	DAS12F46	FPC CABLE	7	Industry standard passive matrix VGA colour
2 x CFL	DAS12F54	SOCKET	7	Passive matrix VGA colour
1 x CFL	TBD	SOCKET	7	Compact passive matrix VGA colour

Backlight inverters run from 12V supply.

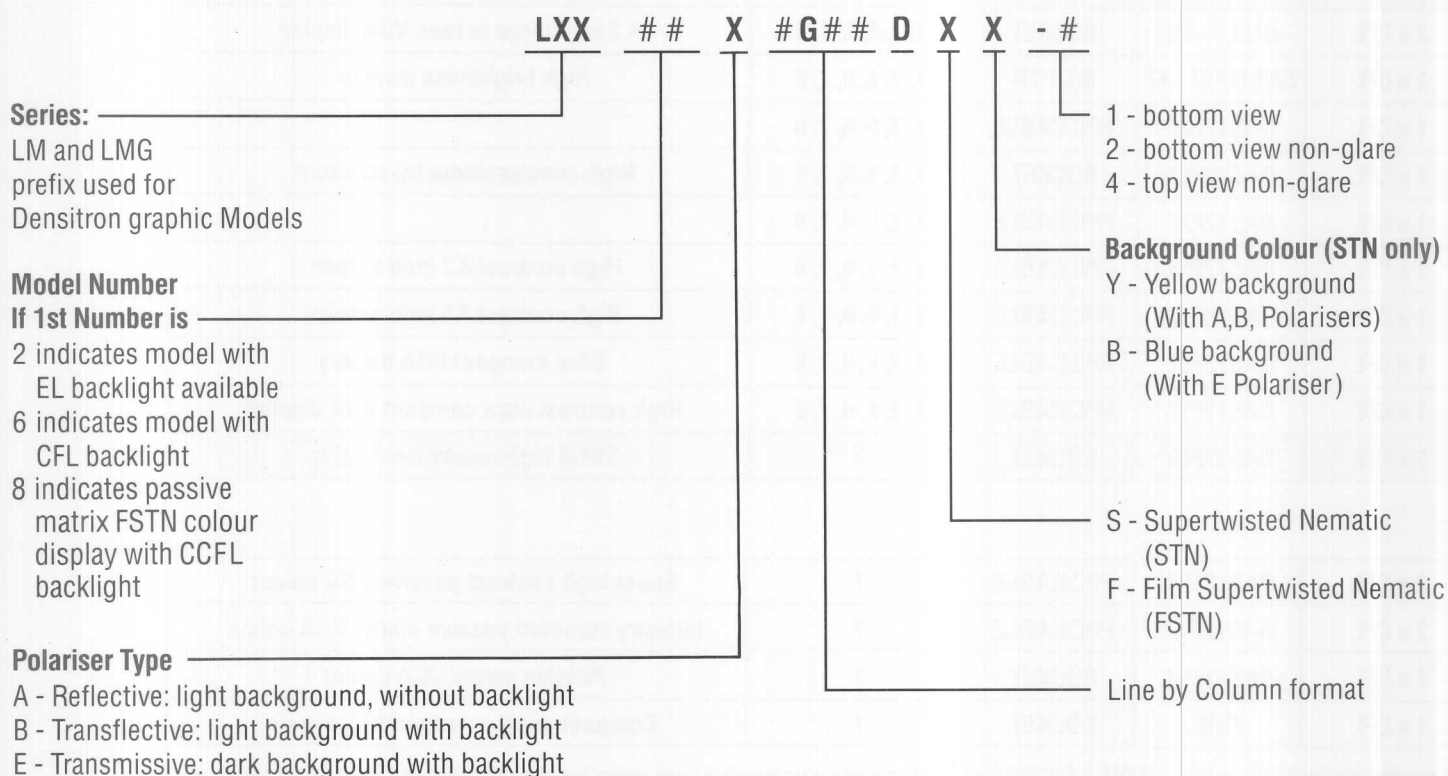
NOTE 2: FPC Cable = Module contains zero insertion force socket for 1mm pitch Flexible Printed Circuit (FPC) cable.
Socket = Module contains socket which mates to Crimp Shell type connector.
SIL PTH = Single-in-line plated-through-holes (1mm diameter) on 2.54 pitch

5. SPX-50
A 5 x 4.5 inch size card, similar in function to the SPX-20 only with the added feature of being able to drive 640 x 480 VGA resolution monochrome liquid crystal displays. Available from late summer '93.
6. PCX-25
This card plugs into any IBM slot and will drive 400 x 640 LCD's in EGA mode or 480 x 640 LCD's directly in VGA mode. The card will provide up to 64 levels grey scale and features an on-board voltage generator to provide power for the LCD display.
7. PCX 35
This card plugs into any IBM slot and will drive 400 x 640 (EGA), 480 x 640 (VGA) monochrome and FSTN Colour. The card provides a palette of 226k colours and features an on-board voltage generator to provide all the necessary drive voltages. The PCX 35 is also capable of driving other flat panel technologies including AC and DC plasma, electroluminescent and TFT LCD.
8. LGI
This unique range of intelligent controller cards allows the user to down load Text or Graphic information to a monochrome 640 x 480 VGA display. (A FSTN colour version is under development.) Interface to the card is either via a RS232 serial or high speed parallel link. Complicated graphic and text information can be drawn/manipulated through an intelligent command interpreter and the card has a multi-drop capability allowing up to 10 displays to be individually addressed from one interface line. Available from late summer '93.

For further detailed information on each controller please contact your local sales office.

ORDERING INFORMATION

Densitron features a "build-a-part-number" system to identify its liquid crystal display (LCD) modules. Obtain the Model No. based on the desired format and character size. Polariser type determines overall look and viewability in various ambient lighting conditions. Fluid type and viewing angle are determined by environmental and ergonomic considerations. An explanation of the part number breakdown is given below:



NOTE: Not all combinations of the above are necessarily available. Please contact your local Densitron Sales Office to check specific availability.

DENSITRON

DENSITRON EUROPE LIMITED, DENSITRON PERDIX, Unit 4, Airport Trading Estate, Biggin Hill, Westerham, Kent TN16 3BW, England.
Phone: (0959) 571011/576600 Facsimile: (0959)571017 Telex: 957353

DENSITRON FRANCE, 5, Rue Montespan, 91024 Evry Cedex, France. Phone: (1) 60 77 48 48 Facsimile: (1) 60 77 58 09

DENSITRON SKYLAB, Piazza Carbonari 12, 20125 Milano, Italy. Phone: (02) 667 10822 Facsimile: (02) 667 10695

DENSITRON DEUTSCHLAND GmbH (NORTHERN OFFICE), Margarethenstr. 10, 23558 Lubeck, Germany. Phone: (0451) 83489 Facsimile: (0451) 83521

ACTRON (SOUTHERN OFFICE), Dompfaffweg 10, 81827 Munchen 82, Germany. Phone: (89) 430 1050 Facsimile: (89) 439 1884

DENSITRON CORPORATION WESTERN REGION, 3425 West Lomita Boulevard, Torrance, CA 90505 U.S.A.
Phone: (310) 530 3530 Facsimile: (310) 534 8419 (G2/G3) Telex: (11) 910 349 6200 DENSITRON TRNC

DENSITRON CORPORATION EASTERN REGION, Camden Business Centre, 2039 Hwy 1 South, Camden, SC 29020 U.S.A.
Phone: (803) 432 5008 Facsimile: (803) 432 1165

DENSITRON CORPORATION, Kyowa Nanabankan 5F No 1-11-5 Omori Kita, Ota-ku, Tokyo 143 Japan. Cable: "DENTROSE" Tokyo
Phone: (03) 3767 9701/8 Facsimile: (03) 3767 9709 (G2/G3) Telex: J26914 DENSITRON